

Subject: SU418462 abstract

Sensitivity: Confidential

Title

Mixture of lower olefins synthesis - by copolymerisation of ethylene and propylene over nickel palmitate and trialkylaluminium

Patent Data

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Abstract

Basic Abstract

SU-418462 A Use of Ni palmitate (I) in addition to trialkylaluminium such as (C₂H₅)₃Al (II) to catalyst the polymerisation, gives increased yields of 4-6C alpha-olefins which find use as monomers and intermediates in the synthesis of plastics and rubbers. The process is carried out at 100-160 degrees C and 40 atm. In an example, 250 ml. of catalyst consisting of 3% (II) in n-decane and (I), (Al:Ni = 500:1) were placed in a dry autoclave, 235g of propylene and 157 g of ethylene added, the mixt. heated to reqd. temp. and stirred for 20 hrs. Typically, at 100(160) degrees C the % conversions into 4C, 5C and 6C fractions were, resp.: 41.0(39.4), 1.5(19.5) and 0.23 (35.7)%. A small amount of higher 8-9C alpha-olefins was also formed (5-11% depending on the temp.).

Patentee, Inventor

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